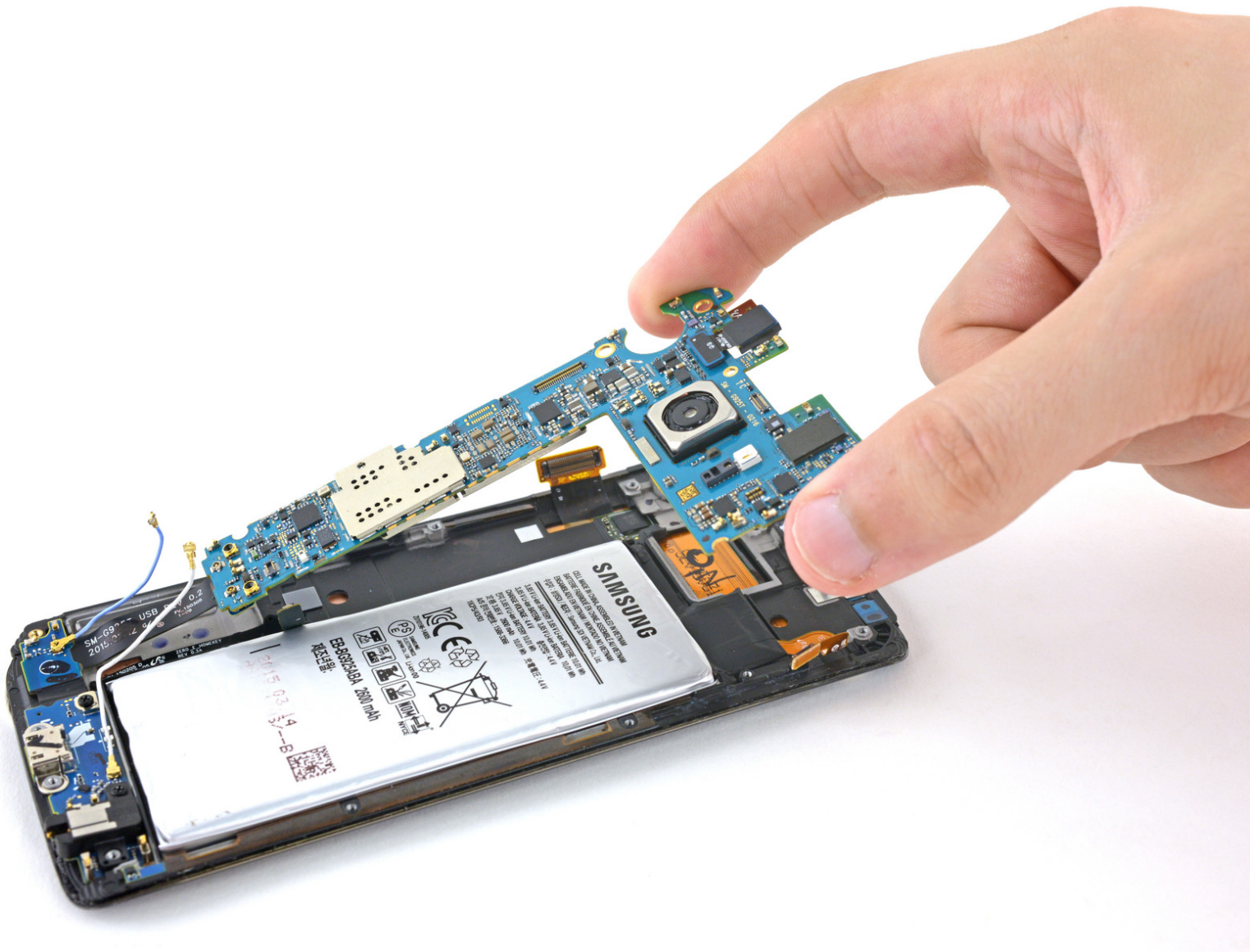




Samsung Galaxy S6 Edge Motherboard Replacement

Replace the motherboard in a Galaxy S6 Edge.

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INTRODUCTION

Use this guide to replace a defective or damaged motherboard in a Samsung Galaxy S6 Edge.

This guide involves removing the rear glass. Removing the rear glass destroys the adhesive holding it in place. Follow [this guide](#) to reinstall the rear glass.



TOOLS:

- [SIM Card Eject Tool](#) (1)
- [iOpener](#) (1)
- [Heavy-Duty Suction Cups \(Pair\)](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [Precision Tweezers Set](#) (1)



PARTS:

- [Galaxy S6 Edge Motherboard \(AT&T\)](#) (1)

Step 1 — SIM Tray



- Insert a paper clip or SIM eject tool into the hole in the SIM card slot on the power button side of the phone.
 - ⚠ Do not insert the tool into the microphone hole or you could cause damage. Look for the outline of the SIM tray.
- Press to eject the SIM card tray.
- Remove the SIM card tray from the phone.

Step 2 — iOpener Heating



- ⓘ We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.
- Place the iOpener in the center of the microwave.
 - ⚠ For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.

Step 3



- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

- ⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst.
- ⚠ Never touch the iOpener if it appears swollen.
- ⚠ If the iOpener is still too hot in the middle to touch, continue using it while waiting for it to cool down some more before reheating. A properly heated iOpener should stay warm for up to 10 minutes.



Step 4



- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.
- ⚠ The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

Step 5 — Rear Glass



-  Place the phone facedown.
-  If your glass is shattered, put packing tape over the entire panel to hold it together during the removal process.
- Lay the iOpener over the panel for about 60 seconds to loosen the adhesive around the edge of the glass.
- Shift the iOpener to heat the remaining section of the panel for another 60 seconds.

Step 6



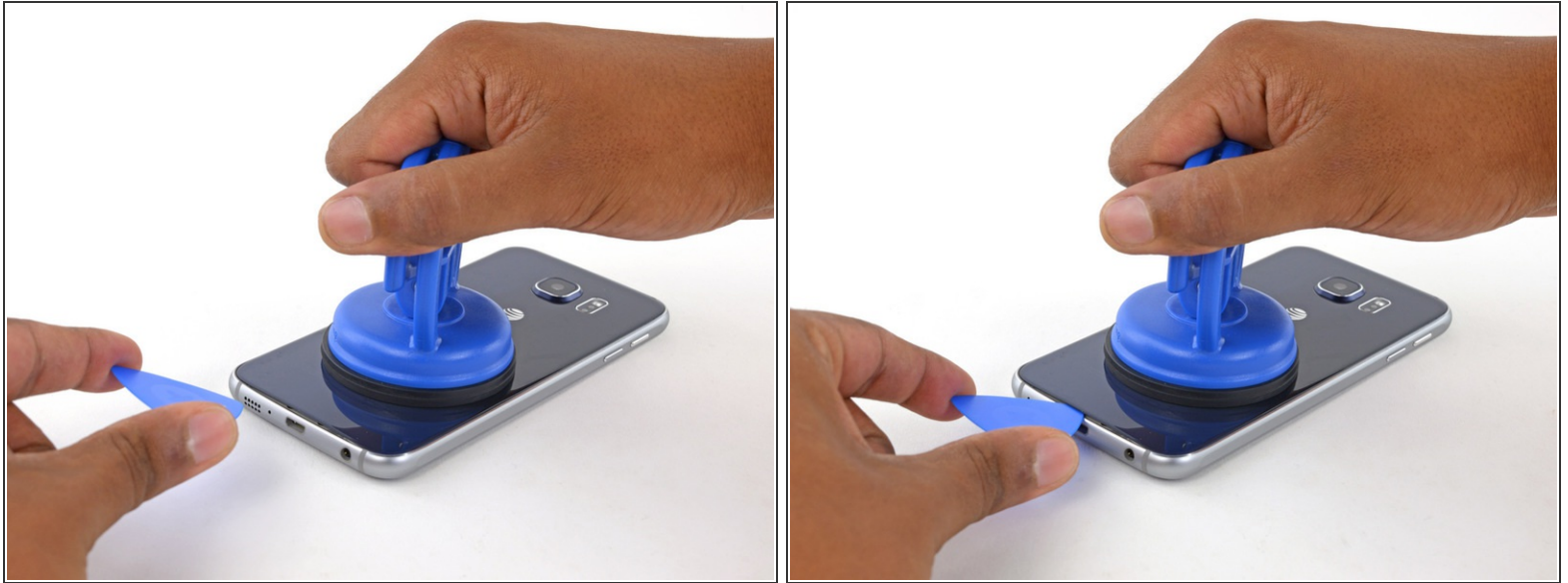
- Attach a heavy-duty suction cup to the lower half of the rear glass panel.
- Secure the suction cup by raising the hinged handle and flipping the latch to clamp both handles in place.

Step 7



- ⓘ The following steps involve using an opening pick to separate the rear panel from the midframe. If the adhesive is too strong, reapply heat with the iOpener.
- Using the suction cup, apply pressure to the middle section of the panel while pulling up the lower edge by pivoting your wrist.

Step 8



- Once you've opened a large enough gap, insert an opening pick between the rear glass and the midframe.

Step 9



- Slide the opening pick around the bottom left corner of the rear glass panel.

Step 10



- Slide the pick along the power button side of the phone.

Step 11



- Slide the opening pick across the top of the phone.

Step 12



- Slide the opening pick down along the volume buttons side of the phone.

Step 13



- Pull up on the rear glass panel while holding down the midframe to separate the components.
 - ❗ If you encounter too much resistance from the adhesive, slide the opening pick under the glass a few more times.

Step 14



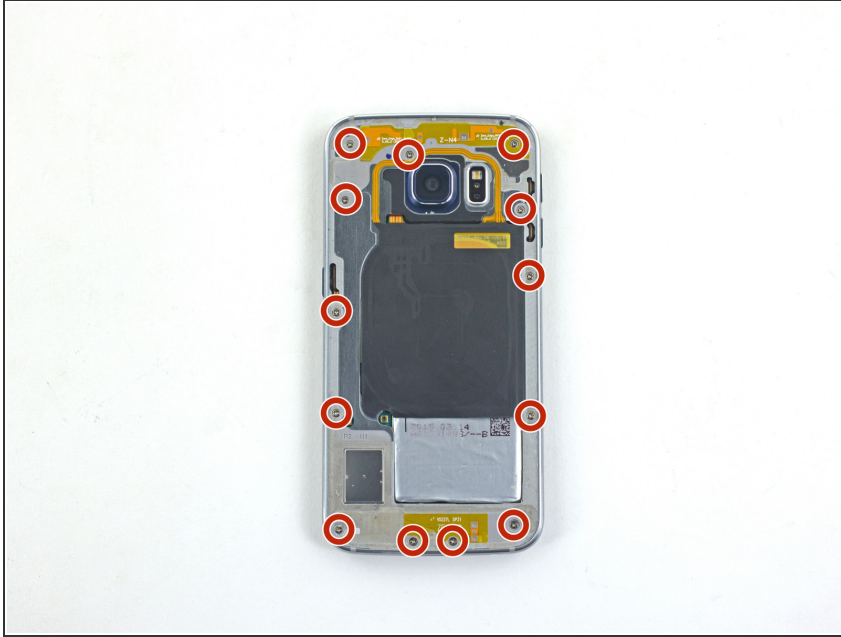
- Insert an opening pick between the rear panel and the midframe.
- Slide the pick along the top of the phone to loosen the remaining adhesive.
- Twist the pick to separate the two pieces.

Step 15



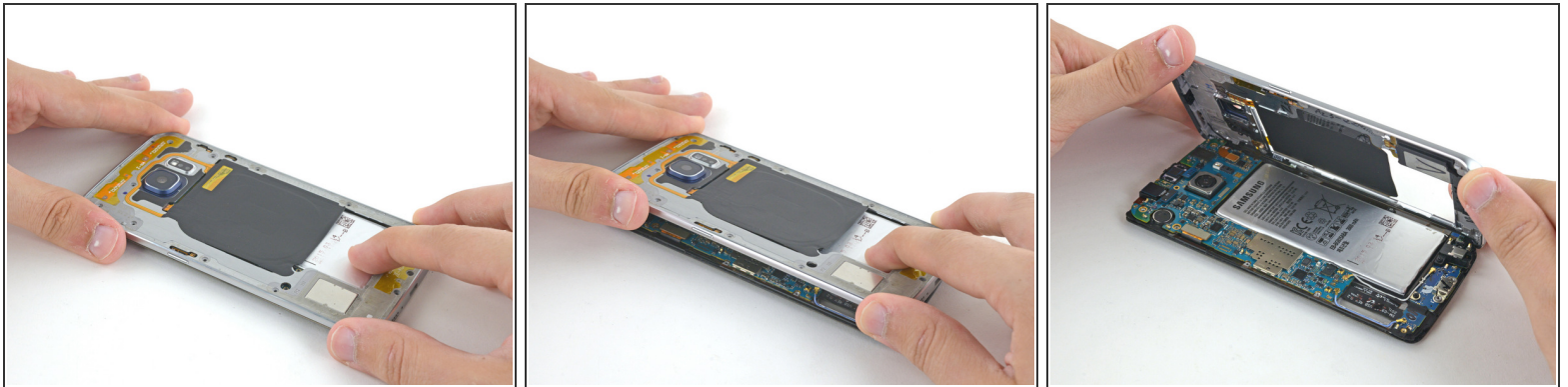
- i** At this point, the rear glass panel should be fully separated from the body of the phone, although the adhesive strip may be attached to both sides.
- Pull the rear panel up and away to completely separate it.
- ★** Follow [this guide](#) to reinstall the rear glass.

Step 16 — Midframe Assembly



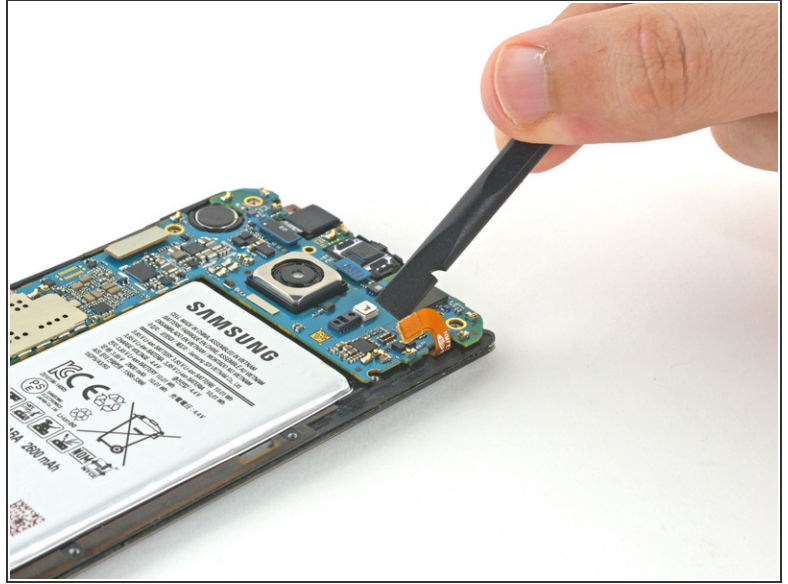
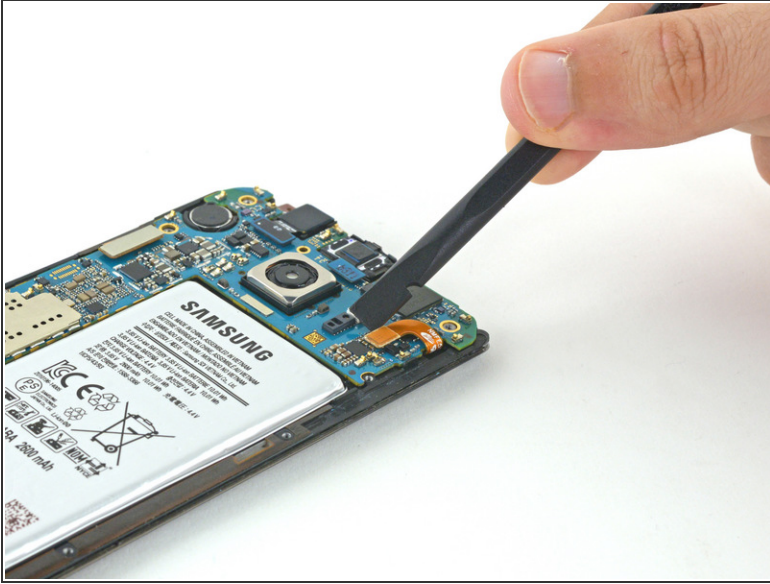
- Remove the thirteen 3.3 mm Phillips #00 screws from the midframe.

Step 17



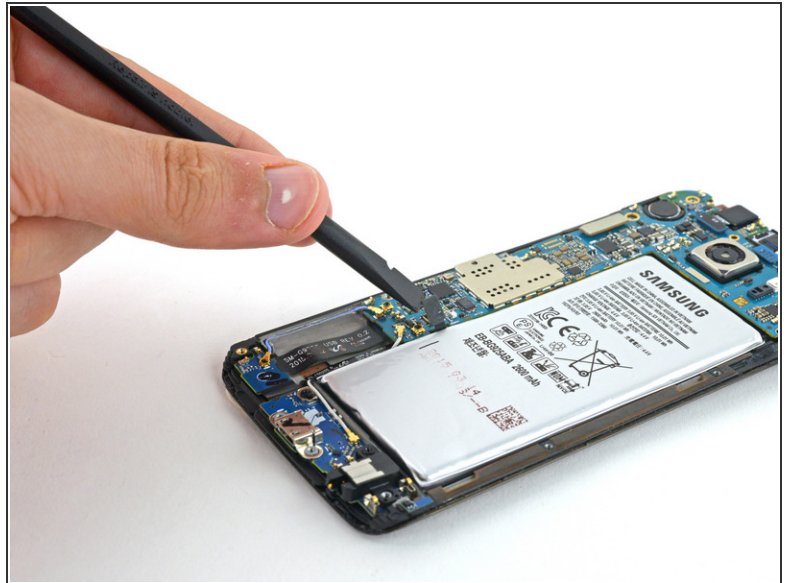
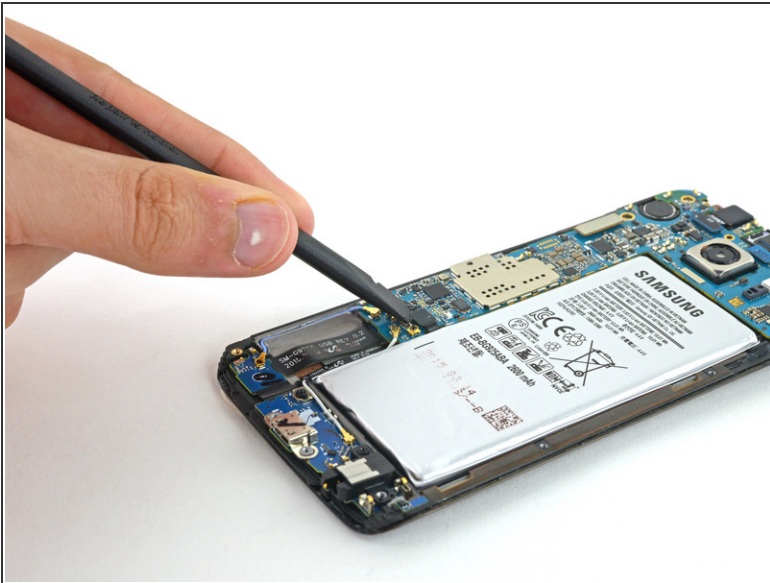
- Press down on the back of the battery and lift up on the edges of the midframe to separate it from the rest of the phone.

Step 18 — Motherboard



- Using the flat end of the spudger, disconnect the battery ribbon cable from the motherboard.

Step 19



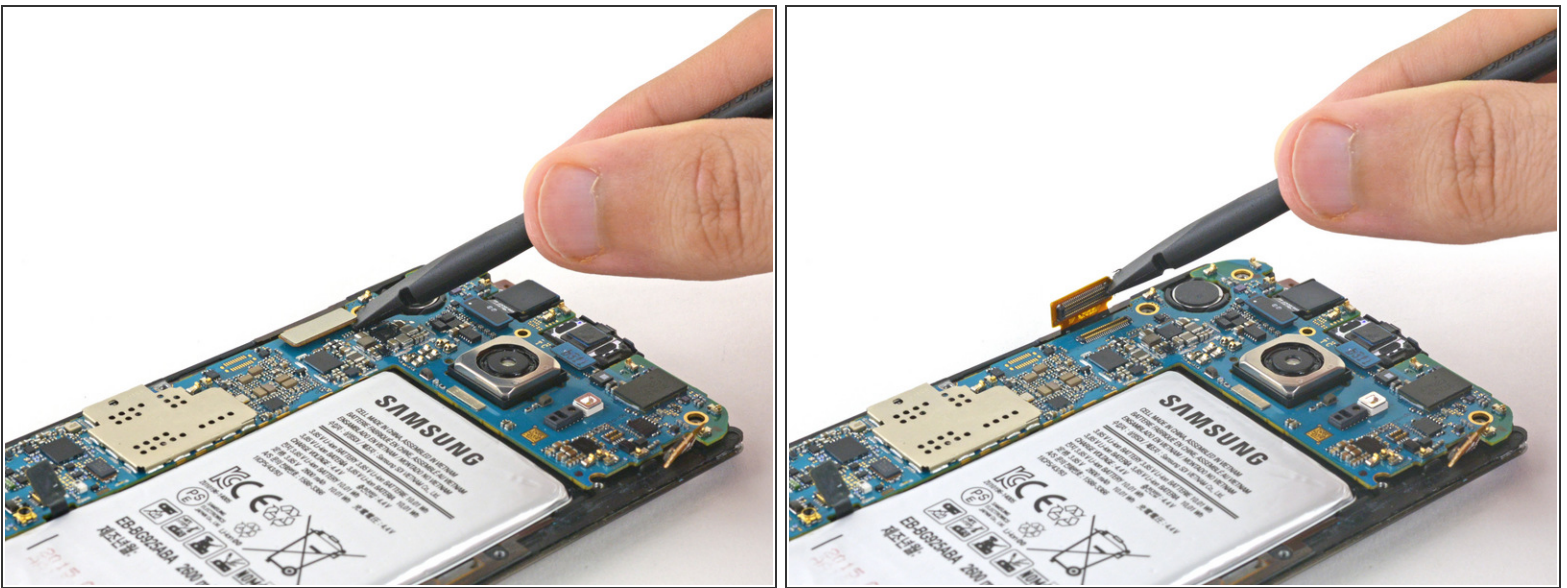
- Disconnect the home button ribbon cable from the motherboard.

Step 20



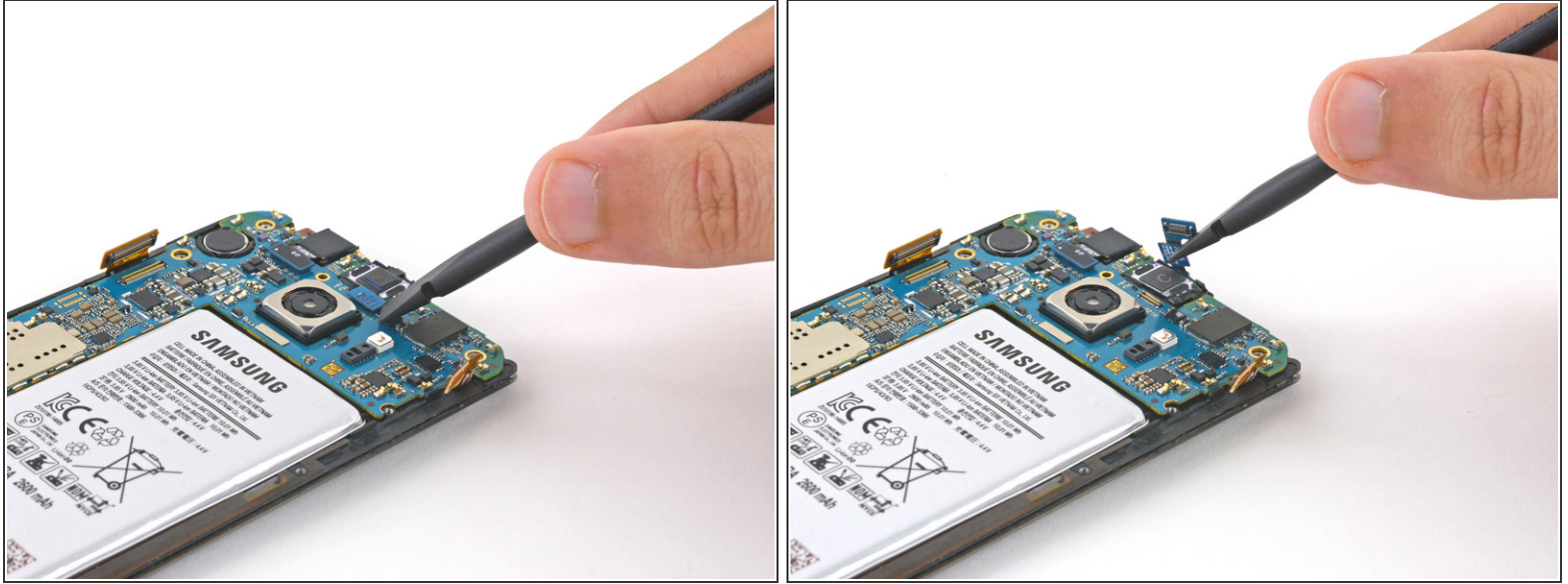
- Use the pointed end of a spudger to disconnect the two wifi antennas from the motherboard.

Step 21



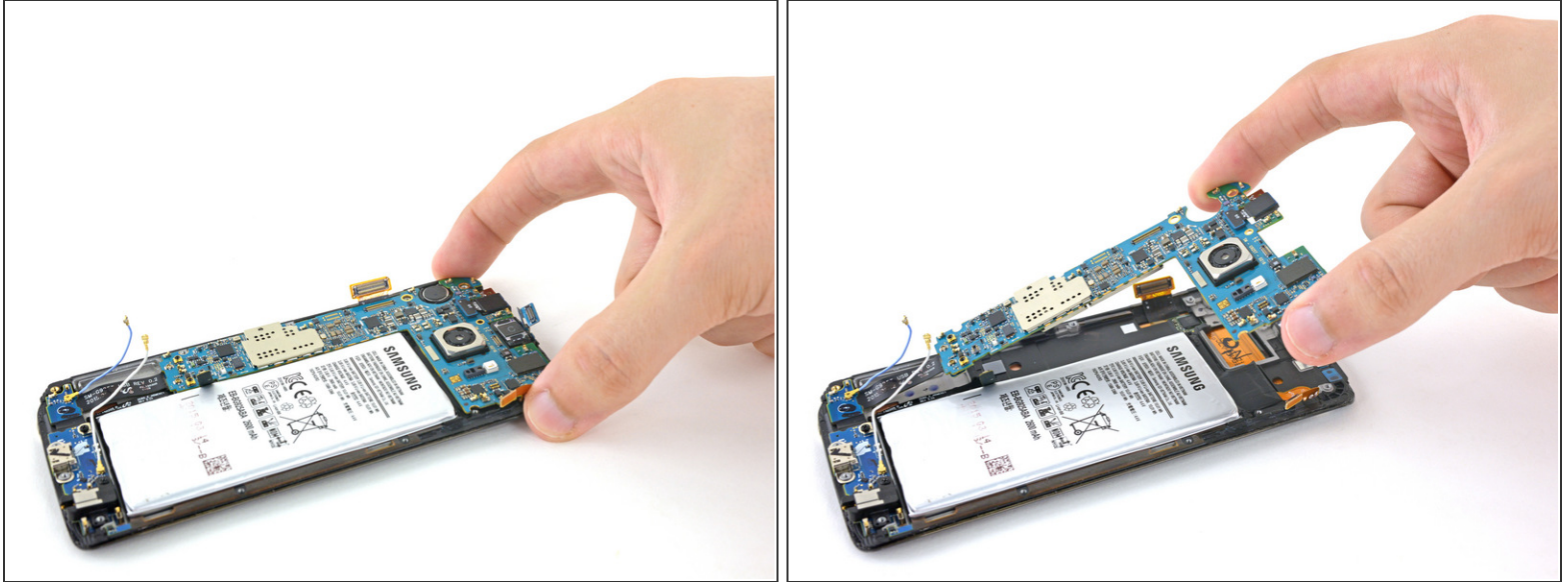
- Disconnect the display ribbon cable from the motherboard using the flat end of the spudger.

Step 22



- Disconnect the earpiece ribbon cable from the motherboard.

Step 23



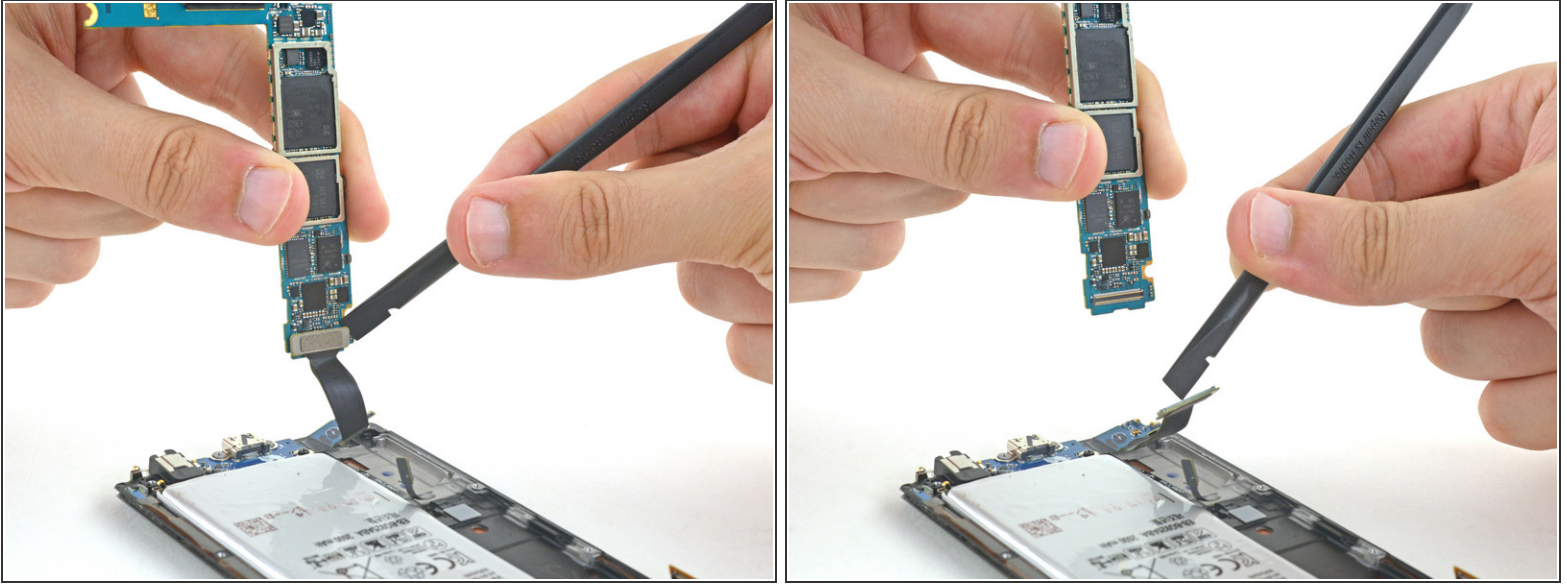
⚠ The motherboard is an ESD sensitive component and should be handled with care. iFixit recommends using a anti-static bracelet whenever handling components of this nature to avoid damage.

- Grip the motherboard on both edges toward the top of the device.

⚠ Do not lift the motherboard all the way out in this step; the ribbon cable on the underside needs to be disconnected first.

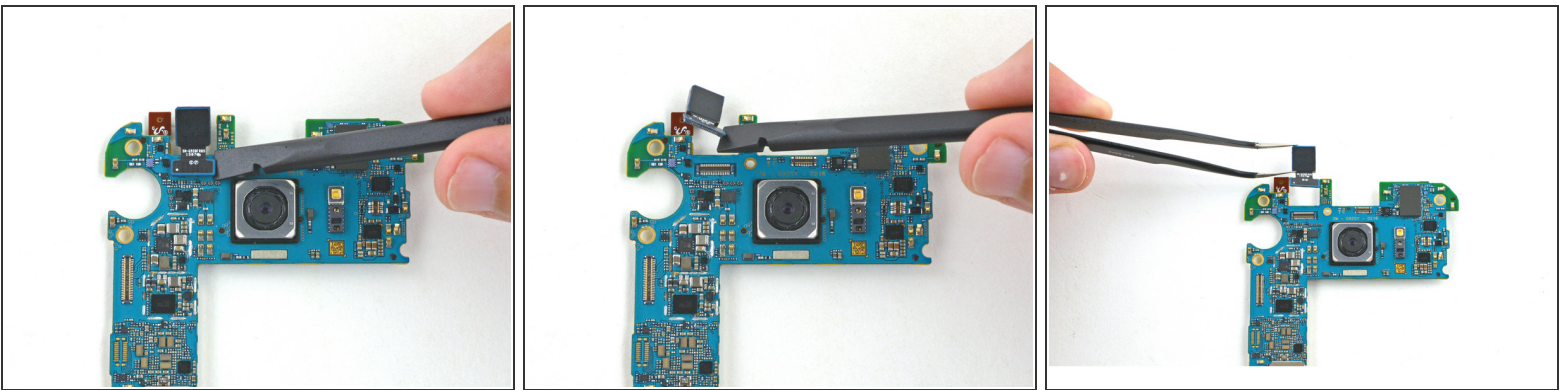
- Lift the motherboard up and away from the display taking care not to put too much stress on the daughterboard ribbon cable.

Step 24



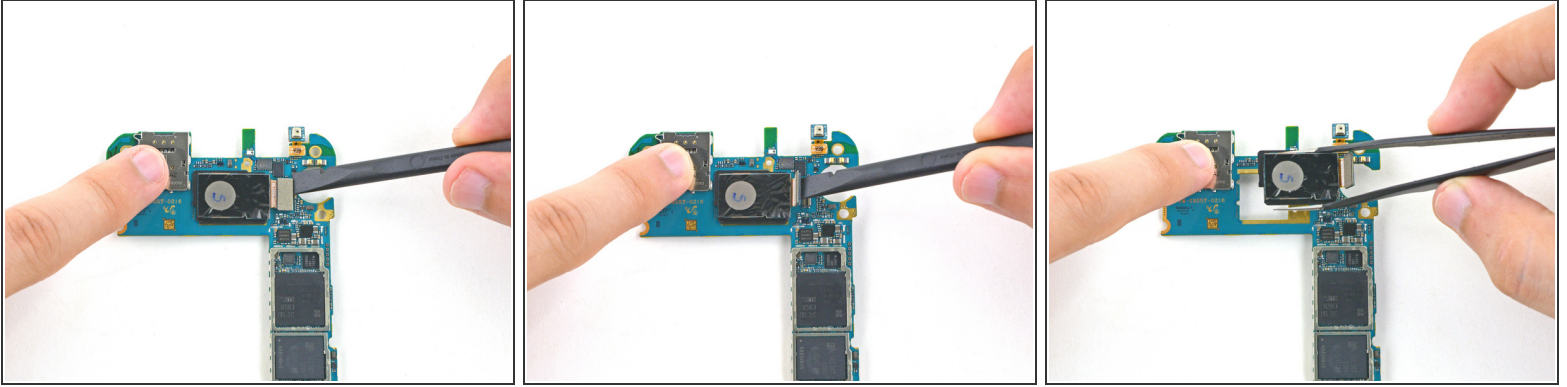
- Disconnect the daughterboard ribbon cable from the underside of the motherboard.

Step 25



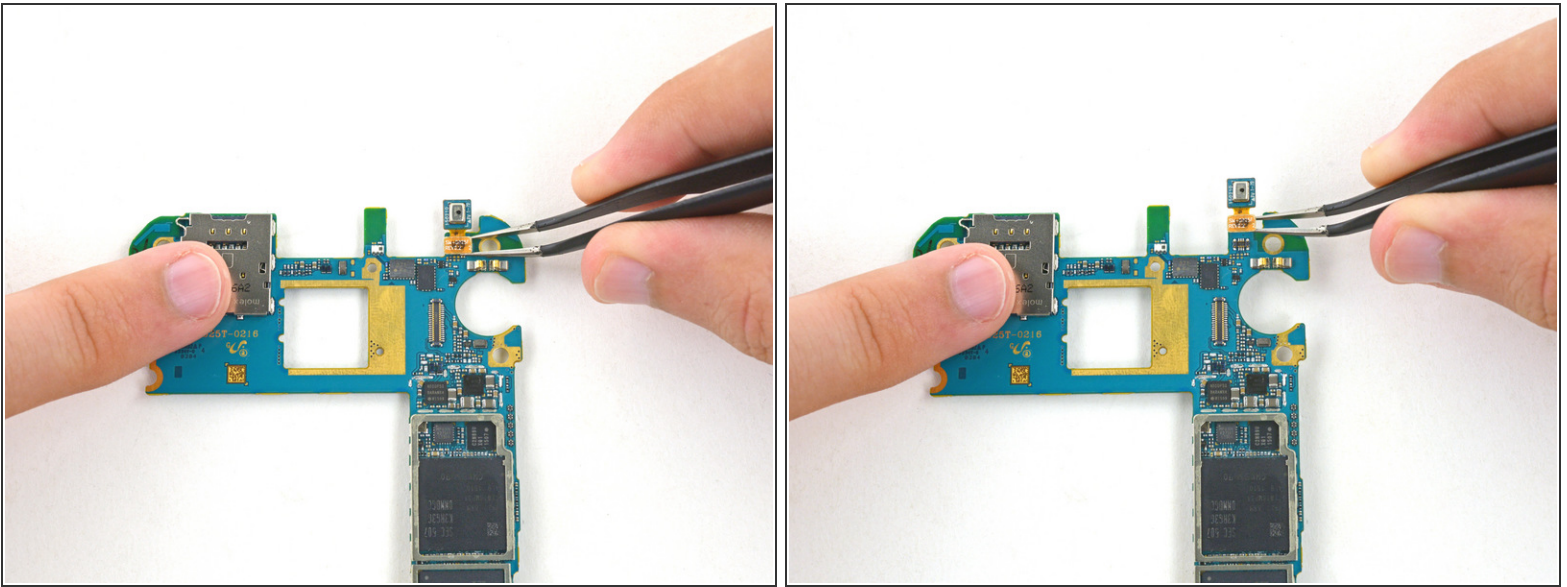
- Using the flat end of a spudger, pry up the front facing camera's connector.
- Carefully remove the front facing camera from the motherboard.

Step 26



- Using a spudger, pry up the connector for the rear facing camera from the motherboard.
- Remove the rear facing camera from the motherboard.

Step 27



- Remove the microphone from the motherboard.

To reassemble your device, follow these instructions in reverse order. Follow [this guide](#) to reinstall the rear glass.

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